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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,863	02/07/2007	Guangxia Gao	Q95957	7734
23373 SUGHRUE MI	7590 04/02/200 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			PAK, YONG D	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1652	
			MAIL DATE	DELIVERY MODE
			04/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/585,863	GAO ET AL.				
Office Action Summary	Examiner	Art Unit				
	YONG D. PAK	1652				
The MAILING DATE of this communication арр Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 11 Ju	ulv 2006					
· <u> </u>	· · · · · · · · · · · · · · · · · · ·					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
·—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
· _						
	Claim(s) <u>1-15</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are allowed. 6)☐ Claim(s) is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	7) Claim(s) is/are objected to. 8) Claim(s) <u>1-15</u> are subject to restriction and/or election requirement.					
o) Claim(s) 1-10 are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F	ate				
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

This application is a 371 of PCT/CN04/00039.

The preliminary amendment filed on July 11, 2006, amending claims 3 and 10 and adding claims 11-15, has been entered.

Claims 1-15 are pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4 and 14-15, drawn to a moloney murine leukemia virus reverse transcriptase, wherein glutamine at the position 84th amino acid from the N-terminus is replaced with an amino acid with side chain shorter than glutamine.

Group II, claim(s) 5-13 are, drawn to a polynucleotide encoding the moloney murine leukemia virus reverse transcriptase of Group I and a method of producing said reverse transcriptase.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking Groups I-II appears to be that they all relate to a moloney murine leukemia virus reverse transcriptase, wherein glutamine at the position 84th amino acid from the N-terminus is replaced with an amino acid with side chain shorter than glutamine.

Since the claims do not recite the amino acid sequence of the MLVRT, it is not clear to the Examiner what amino acid residue in a give MLVRT, including any or all variants and mutants thereof, is the "glutamine at the position of 84". Therefore, Examiner has interpreted the claims to encompass any mutant of MLVRT, wherein any glutamine residue has been substituted with an amino acid whose side chain is shorter than that of glutamine. Jin et al. (Chem. 1999 Jul 23;274(30):20861-8 – form PTO-892) discloses a moloney murine leukemia virus reverse transcriptase (MLVRT) with a Q190A mutation (abstract). The side chain of alanine is shorter than that of glutamine. Therefore, Examiner takes the position that the mutant of Jin et al. reads on the claims.

Therefore, the technical feature linking the inventions of Groups I-II does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

The special technical feature of Group I is a moloney murine leukemia virus reverse transcriptase, wherein glutamine at the position 84th amino acid from the N-terminus is replaced with an amino acid with side chain shorter than glutamine.

The special technical feature of Group II is a polynucleotide a moloney murine leukemia virus reverse transcriptase, wherein glutamine at the position 84th amino acid from the N-terminus is replaced with an amino acid with side chain shorter than glutamine and a method of producing said reverse transcriptase.

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Accordingly, Groups I-II are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong Pak whose telephone number is 571-272-0935. The examiner can normally be reached 6:30 A.M. to 5:00 P.M. Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nashaat Nashed can be reached on 571-272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).